BoxTech

Technical Characteristics Database

October 2016

www.bic-boxtech.org
About the BIC

- Promoting safety, security, standardization and sustainability.
- Non-profit NGO, founded in 1933
- 2100+ members in over 120 countries
- Owner code registration authority since 1972. The BIC code is the “international calling card” of nearly every container in international trade, allowing for proper identification and facilitating the crossing of borders without delay.
- Manage Global ACEP Database since 2013
- Official NGO Observer status at: IMO, World Customs Organization, UNECE

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What is BoxTech?

The BoxTech Technical Characteristics Database is a neutral, non-profit, non-commercial, centralized data repository providing container owners and users a platform to easily exchange container fleet technical details.
SOLAS Regulation

• Effective July 1, 2016, any shipping container leaving from any port in the world must be accompanied by a shipping document signed either electronically or in hard copy by the shipper on the bill of lading listing the verified gross mass (VGM) of a container in order to be loaded onto a ship.

• Obtaining the VGM is allowed by only one of two methods:
  
  – **Method 1** – Prior to the vessel loading, weigh the entire loaded container using calibrated and certified equipment.
  
  – **Method 2** - Weigh all of the packages that are stowed in the container, including all pallets, dunnage and other packing material, and then add the **tare weight** of the container.
Where to obtain container tare weight?

<table>
<thead>
<tr>
<th>Shippers &amp; Intermediaries</th>
<th>Owners &amp; Operators</th>
</tr>
</thead>
<tbody>
<tr>
<td>• From door of container?</td>
<td>• Heavy admin to exchange data between lessors-carriers and carriers-shippers</td>
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<td>• From 2-3 dozen websites?</td>
<td>• Can satisfy customer’s need AND become more efficient themselves through use of a neutral platform</td>
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<td>• Need a standard process and instant access to technical data to support efficient operations.</td>
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Container Owners
- Receive multiple inquiries via phone and email; employees are being used for non-core business
- Processes are not in place for sharing key data
- Building/maintaining an online database is not core business

Container Users and Intermediaries
- Must access multiple sources not always knowing who to contact
- If an online database is even available unit numbers are manually entered
- New processes needed for non-core business
BoxTech’s TCD Provides a Centralized, Neutral Database for all parties

Use of the Boxtech TCD means a one-stop-shop for all parties. Everybody wins.
Demand for efficiency

- Already > 400 major shippers, forwarders, terminals, rail and motor carriers have signed-up up to access data.

<table>
<thead>
<tr>
<th>Shippers/FF’s</th>
<th>Terminals</th>
<th>Carriers</th>
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<tbody>
<tr>
<td>ContainerPort Group</td>
<td>POMTOC</td>
<td>APL</td>
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<tr>
<td>Nestlé</td>
<td>SAVINO DEL BENE</td>
<td>CMA CGM</td>
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<td>FedEx Trade Networks</td>
<td>DB Schenker</td>
<td>Hanjin</td>
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<td>Rutgers</td>
<td>CargoSmart</td>
<td>UNIFEED</td>
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<td>Constellation Brands</td>
<td>Termainges Rio de La Plata</td>
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<td>SAVINO DEL BENE</td>
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<td>COSCO</td>
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<td>L A Z BOY</td>
<td>Termainges Rio de La Plata</td>
<td>Wan Hai Lines LTD.</td>
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<td>Global Logistics And Forwarding Company</td>
<td>Termainges Rio de La Plata</td>
<td>EIMSKIP</td>
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<tr>
<td>SCHENKER</td>
<td>Termainges Rio de La Plata</td>
<td>YANG MING LINE</td>
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<td>PCC Logistics</td>
<td>RAY-MONT Logistics</td>
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<td>CargoSmart</td>
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<td>PCC Logistics</td>
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<td>DFDS</td>
<td>APM Terminals</td>
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<tr>
<td>SHIPex International Freight Forwarder</td>
<td>APM Terminals</td>
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<td>TCL</td>
<td>APM Terminals</td>
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<td>PELAGIA</td>
<td>APM Terminals</td>
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<td>C. Steinweg Oman LLC</td>
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Great Interest and Steady Growth

- The TCD has achieved steady growth and user interest from the beginning onwards.

TCD Pilot Commences

- JUL ‘16
  - 50+ Users
  - 100+ Users
  - 150+ Users
  - 250+ Users
  - 350+ Users

- 100k Units uploaded
- 250k Units uploaded
- 500k Units uploaded
- 1M+Units uploaded
Onboarding Process: Container Owners

- Quick sign-up and account verification
- Upload initial file using CSV template
- Subsequently automate fleet updates via API
Accessing data in the TCD Database

- Users complete an online sign-up form to immediately obtain access.
- Query database online by typing container number(s).
- Users may integrate data into their internal systems through APIs.
- In either case, the container number is required.
- Owner/Operator not displayed.
Detailed Container Data

- Further details such as Physical Characteristics, Dimensions and Manufacturer are displayed on the detailed view. Most are optional.
Win-Win-Win-Win-Win

**Container Lessors**
- Avoid sending constant file updates to hundreds of lessees.
- Avoid phone/e-mail customer support to answer basic equipment questions

**Ocean Carriers**
- Avoid chasing leasing companies for file updates
- Avoid the maintenance of online tare weight query tool
- Avoid phone/e-mail customer support to answer basic equipment questions
- Customer and vendor satisfaction: Make customers and other trading partners more efficient

**Shippers / Forwarders**
- Avoid accessing dozens of different websites to obtain tare weight
- Avoid manual re-keying of characteristics
- Avoid any manual intervention whatsoever, once automated API in place

**Terminals**
- More efficient planning through better visibility of container size/types and other characteristics
- Exception management: Non-standard equipment, spot errors, missing data

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Q&A